

WHAT IS CLAIMED IS:

1. A composition for coating having a gas barrier property comprising coating-forming components of an epoxy resin and an amine curing agent, wherein said amine curing agent is a reaction product of the following (A) and (B) or (A), (B) and (C).

(A) methaxylylenediamine or paraxylylenediamine.

(B) polyfunctional compound having at least one acyl group which is capable of forming amide group moiety by reaction with a polyamine to form an oligomer.

(C) monocarboxylic acid having 1 to 8 carbon atoms and/or derivative thereof.

2. The composition for coating according to claim 1, wherein said epoxy resin is at least one resin selected from the group consisting of an epoxy resin with glycidylamine moiety derived from methaxylylenediamine, an epoxy resin with glycidylamine moiety derived from 1,3-bis(aminomethyl)cyclohexane, an epoxy resin with glycidylamine moiety derived from diaminodiphenyl methane, an epoxy resin with glycidylamine moiety derived from paraamino phenol, an epoxy resin with glycidylether moiety derived from

bisphenol A, an epoxy resin with glycidylether moiety derived from bisphenol F, an epoxy resin with glycidylether moiety derived from phenol novolac and an epoxy resin with glycidylether moiety derived from resorcinol.

3. The composition for coating according to claim 1, wherein said epoxy resin is an epoxy resin with glycidylamine moiety derived from methaxylylenediamine.

4. The composition for coating according to claim 1, wherein said (B) polyfunctional compound is acrylic acid, methacrylic acid and/or derivative thereof.

5. The composition for coating according to claim 1, wherein said (C) monocarboxylic acid having 1 to 8 carbon atoms and/or derivative thereof is formic acid, acetic acid, propionic acid, butyric acid, lactic acid, glycolic acid, benzoic acid and/or derivative thereof.

6. A coating comprising the composition for coating having a gas barrier property described in claim

1.

7. A coated film having a gas barrier property

coated a gas barrier layer on at least one side of a flexible polymer film, wherein said gas barrier layer is a layer formed by cure of a composition for coating having a gas barrier property comprising coating-forming components of an epoxy resin and an amine curing agent, wherein said amine curing agent is a reaction product of the following (A) and (B) or (A), (B) and (C).

(A) methaxylylenediamine or paraxylylenediamine.

(B) polyfunctional compound having at least one acyl group which is capable of forming amide group moiety by reaction with a polyamine to form an oligomer.

(C) monocarboxylic acid having 1 to 8 carbon atoms and/or derivative thereof.

8. The coated film according to claim 7, wherein said epoxy resin is at least one resin selected from the group consisting of an epoxy resin with glycidylamine moiety derived from methaxylylenediamine, an epoxy resin with glycidylamine moiety derived from 1,3-bis(aminomethyl)cyclohexane, an epoxy resin with glycidylamine moiety derived from diaminodiphenyl methane, an epoxy resin with glycidylamine moiety derived from paraamino phenol, an epoxy resin with glycidylether moiety derived from bisphenol A, an epoxy

resin with glycidylether moiety derived from bisphenol F, an epoxy resin with glycidylether moiety derived from phenol novolac and an epoxy resin with glycidylether moiety derived from resorcinol.

9. The coated film according to claim 7, wherein said epoxy resin is an epoxy resin with glycidylamine moiety derived from methaxylylenediamine.

10. The coated film according to claim 7, wherein said (B) polyfunctional compound is acrylic acid, methacrylic acid and/or derivative thereof.

11. The coated film according to claim 7, wherein said flexible polymer film is a polyolefin film, a polyester film or a polyamide film.

12. A multilayered laminate having a gas barrier property comprising two outer layers (S_1) and (S_2) and at least one intermediate layer comprising at least one gas barrier layer (G) interposed between said two outer layers (S_1) and (S_2), wherein said gas barrier layer (G) is a layer formed by cure of a composition for coating having a gas barrier property comprising coating-forming components of an epoxy resin and an amine curing agent,

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wherein said amine curing agent is a reaction product of the following (A) and (B) or (A), (B) and (C).

(A) methaxylylenediamine or paraxylylenediamine.

(B) polyfunctional compound having at least one acyl group which is capable of forming amide group moiety by reaction with a polyamine to form an oligomer.

(C) monocarboxylic acid having 1 to 8 carbon atoms and/or derivative thereof.

13. The multilayered laminate according to claim 12, wherein said epoxy resin is at least one resin selected from the group consisting of an epoxy resin with glycidylamine moiety derived from methaxylylenediamine, an epoxy resin with glycidylamine moiety derived from 1,3-bis(aminomethyl)cyclohexane, an epoxy resin with glycidylamine moiety derived from diaminodiphenyl methane, an epoxy resin with glycidylamine moiety derived from paraamino phenol, an epoxy resin with glycidylether moiety derived from bisphenol A, an epoxy resin with glycidylether moiety derived from bisphenol F, an epoxy resin with glycidylether moiety derived from phenol novolac and an epoxy resin with glycidylether moiety derived from resorcinol.

14. The multilayered laminate according to claim 12, wherein said epoxy resin is an epoxy resin with glycidylamine moiety derived from methaxylylenediamine.

15. The mutilayered laminate according to claim 12, wherein said (B) polyfunctional compound is acrylic acid, methacrylic acid and/or derivative thereof.

16. The multilayered laminate according to claim 12, wherein each said outer layers (S_1) and (S_2) is flexible polymer film layer (F).

17. The multilayered laminate according to claim 16, wherein said flexible polymer film layer (F) is one film layer selected from the group consisting of a polyolefin film, a polyester film and a polyamide film.

18. The multilayered laminate according to claim 16, having flexible polymer film layer (F)-gas barrier layer (G)-flexible polymer film layer (F), flexible polymer film layer (F)-gas barrier layer (G)-paper layer (P)-gas barrier layer (G)-flexible polymer film layer (F), flexible polymer film layer (F)-gas barrier layer (G)-paper layer (P)-gas barrier layer (G)-metallic foil

layer (M)-gas barrier layer (G)-flexible polymer film layer (F) or flexible polymer film layer (F)-gas barrier layer (G)-flexible polymer film layer (F)-gas barrier layer (G)-flexible polymer film layer (F).

19. The multilayered laminate according to claim 12, wherein said outer layer (S₁) is flexible polymer film layer (F) and said outer layer (S₂) is paper layer (P) or metallic foil layer (M).

20. The multilayered laminate according to claim 19, having flexible polymer film layer (F)-gas barrier layer (G)-paper layer (P), flexible polymer film layer (F)-gas barrier layer (G)-metallic foil layer (M) or flexible polymer film layer (F)-gas barrier layer (G)-metallic foil layer (M)-gas barrier layer (G)-paper layer (P).

21. The multilayered laminate according to claim 12, wherein said outer layer (S₁) is paper layer (F) or metallic foil layer (M) and said outer layer (S₂) is paper layer (F) or metallic foil layer (M).

22. The multilayered laminate according to claim 21, having paper layer (P)-gas barrier layer (G)-

metallic foil layer (M), layer (P)-gas barrier layer
(G)-layer (P), metallic foil layer (M)-gas barrier layer
(G)-metallic foil layer (M), paper layer (P)-gas barrier
layer (G)-flexible polymer film layer (F)-gas barrier
layer (G)-metallic foil layer (M), paper layer (P)-gas
barrier layer (G)-flexible polymer film layer (F)-gas
barrier layer (G)-paper layer (P) or metallic foil layer
(M)-gas barrier layer (G)-flexible polymer film layer
(F)-gas barrier layer (G)-metallic foil layer (M).

23. The multilayered laminate according to claim
12, wherein said gas barrier layer (G) has an oxygen
permeation factor of $0.2 \text{ cc-mm/m}^2 \cdot \text{day} \cdot \text{atm}$ or below under
the conditions of temperature 23°C and relative
humidity 60 %.

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